

GENERAL REFERENCE BOOKS

<i>Sl. No.</i>	<i>Author</i>	<i>Title</i>	<i>Publisher</i>
1.	Amerongen, CV	Dictionary of Cement	BGW, Germany Oxford 1967
2.	—	Proc 3rd Int. Symp. on the Chemistry of Cement in 1952	BR S & CACA UK 1954
3.	—	World Cement Directory	Cembureau
4.	Czernin	Cement Chemistry and physics for Civil Engineers	—
5.	Lea, FM	Chemistry of Cement and Concrete	Edward Arnold UK — 1970
6.	Taylor, HFW	Chemistry of Cements Vol I	Academic Press UK
7.	—do—	Chemistry of Cements Vol II	and USA 1964
8.	Bogue, RH	Chemistry of Portland	Cembureau 1959
9.	—	On the Testing of Cement	Cembureau
10.	Fintel	Hand Book of Concrete Engg.	Vannostrand 1974
11.	Lalonde	Concrete Engg. Hand Book	McGraw. Hill USA 1961
12.	Orchard D.F.	Concrete Technology Vol I	Applied Science UK 1973
13.	— do —	Concrete Technology Vol II	Applied science UK 1973
14.	— do —	Concrete Technology Vol III	Applied Science UK 1976
15.	Singleton-Green	Concrete Engg. Vol I— Practical Concrete	Charls Griffin Co UK 1935
16.	Singleton-Green	Concrete Engg. Vol II — Properties of Concrete	Charls Griffin Co. UK. 1934
17.	Tattersall	Workability of Concrete	A viewpoint pub UK 1976
18.	—do—	Concrete Manual	USBR 1972
19.	Figg-JW and Bowden SR	Analysis of Concrete	HMSO UK 1971
20.	Neville	Properties of Concrete	FLBE 1977
21.	Powers	Properties of Fresh Concrete	J. Wiley and sons USA 1968
22.	Troxell and Davis	Composition & properties of concrete	McGraw Hill USA 1956
23.	Whitehurst	Evaluation of Concrete properties from Sonic tests ACI Monographs No. 2	ACI USA 1967
24.	—	Computer applications in Concrete Design & Technology ACI SP—16	— do —
25.	—	Fatigue of Concrete ACI SP—41	ACI, USA 1974
26.	—	Durability of Concrete ACI SP—47	— do — 1975

Sl. No.	Author	Title	Publisher
27.	—	RILEM Symp on durability of Concrete	Checkoslovak Academy of science
28.	Woods	Durability of Concrete ACI SP— 4	ACI USA 1968
29.	—	Concrete Hand Book	Concrete Association of India 1969
30.	Petzold & Rehms	Concrete for High Temperature	Elsevier Publication 1970
31.	Ramchandran VS	Calcium Chloride in Concrete	Science and Technology Applied Science UK
32.	Steward DA	Design and Placing of High Quality Concrete	E & FN Spon Ltd UK 1962
33.	Thursby H	Controlling Concrete on the site	Cement and Concrete Association UK 1976
34.	Tretyakav A	Concrete and concreting	Mir Pub Moscow, 1968
35.	Waddell JJ	Concrete Construction Hand Book	McGraw Hill 1968
36.	Woddell JJ	Practical Quality Control for Concrete	
37.	Wals HN	How to make good Concrete	
38.	—	Concrete Hand Book	ACI Publication 1969
39.	—	Recommended practice for cold weather concreting	ACI Publication 1966
40.	—	Recommended practice for selecting proportions for structural light weight concrete	ACI 1967
41.	—	Manual of concrete Inspection	ACI SP-2, 1967
42.	—	Proceedings of symposium on shotcreting	ACI SP-14 1966
43.	—	Causes Mechanism and Control of cracking in concrete	ACI SP-20 1968
44.	—	Concrete for Nuclear Reactor Vol I Vol II Vol III	ACI SP-34 1972
45.	—	Use of shotcrete for undergoing structural support	ACI SP-45, 1974
46.	—	Corrosion of Metals in Concrete	ACI SP-49 1975
47.	—	Roadways and Airport Pavements	ACI SP-51
48.	—	Insulating Concretes	ACI Publication
49.	—	Recommended Practice for Design of Concrete pavements	ACI Publication
50.	—	Selection and use of Aggregates	ACI Publication
51.	—	Guide for use of Epoxy compounds with Concrete	ACI Publication
52.	Preschke B	Concrete construction	Asia Publishing House

<i>Sl. No.</i>	<i>Author</i>	<i>Title</i>	<i>Publisher</i>
53.	Biczok	Concrete corrosion and concrete protection	<i>Alkademiai, Kaido Hungary</i>
54.	Hurd MK	Formwork for Concrete	<i>ACI SP-4, 1963</i>
55.	—	Light weight Aggregate concrete Technology & word application	<i>Cembureau France 1974</i>
56.	Short, Andrew Kenniburg	Light weight concrete	<i>Asia Publishing House Bombay— India 1963</i>
57.	Spratty BH	Structural use of light weight aggregate concrete	<i>Cement and Concrete Association UK 1974</i>
58.	Erntroy HC Teychenne DC Franklin RE	Design of Normal Concrete Mixes	<i>HMSO Publication UK 1976</i>
59.	—	Road Note No. 4, Design of Concrete Mixes	<i>HMSO—1965</i>
60.	Lyndon FD	Concrete Mix Design	<i>Applied Science UK 1972</i>
61.	Krishna Raju, N	Design of concrete Mixes	<i>M/s Sehgal Faridabad India —1975</i>
62.	Shacklock BW	Concrete constituents and Mix proportions	<i>Cement and concrete Association UK 1974</i>
63.	Richardson JG	Precast concrete Production	<i>CACA—UK—1973</i>
64.	Gerwick BC	Construction of Prestressed concrete construction	<i>J.Wiley USA—1971</i>
65.	Akroyd	Concrete properties and Manufacture	
66.	—	Proceedings of Rilem symposium on winter concreting—1956	<i>Danish National Institute of Building Research Copenhagen —1956</i>
67.	—	Polymers in Concrete	<i>ACI SP—1940</i>
68.	Malhotra VM	Testing of Hardened concrete nondestructive Methods	<i>ACI Monograph series No. 9</i>
69.	—	Polymers in Concrete	<i>Concrete Society UK—1976</i>
70.	Blank R.F. Kennedy HL	Technology of Cement and Concrete	<i>J.Wiley—1955</i>
71.	Murdock	Concrete Materials and Practice	<i>Edward Arnold Ltd. London—1960</i>
72.	Elvery RH	Concrete Practice Vol I Vol II	<i>Asia Publishing House—1963</i>
73.	Meintosh JD	Concrete and Statistics	<i>CR Books Ltd. London 1963</i>
74.	Illingworth JR	Movement and Distribution of concrete	<i>Mcgraw-Hill UK—1972</i>
75.	Rixom MR	Chemical Admixtures for concrete	<i>E & FN Spon Ltd London—1978</i>

<i>Sl. No.</i>	<i>Author</i>	<i>Title</i>	<i>Publisher</i>
76.	—	Structure of Concrete, Proceedings of an International Conference	<i>Cement and Concrete Association London—1965</i>
77.	—	Performance of Concrete Proceeding of a Symposium	<i>University of Toronto Press, Canada—1968</i>
78.	—	Proceedings of Rilem Symposium on Fibre Reinforced Cement Concrete Vol II	<i>The Construction Press Ltd —1976</i>
79.	—	Concrete and Concrete making materials	<i>ASTM Special Technical Publication No. 169-A 1966</i>
80.	—	Tests and Properties of Concrete and Concrete Aggregates	<i>ASTM STP No. 169</i>
81.	—	Fibre Reinforced Concrete	<i>ACI — 44</i>
82.	—	ACI Manual of concrete Practice Part I	<i>ACI —1979</i>
		Part II	
		Part III	
83.	A.M. Neville J.J. Brooks	Concrete Technology	<i>ELBS with Longman 1987</i>
84.	A.M. Neville	Properties of Concrete Fourth Edition	<i>Longman 1995</i>
85.	Steven H. Kosmatka and William C. Panarese	Design and Control of Concrete Mixture	<i>PCA 1988</i>
86.	P. Kumar Mehta Paulo J.M. Monteiro	Concrete Micro-structure, Properties and Materials	<i>Prentice Hall INC & McGraw Hill, USA</i>

LIST OF INDIAN STANDARD SPECIFICATIONS AND CODE OF PRACTICES, RELATED TO CEMENT AND CONCRETE

Sl No.	IS Number	IS Codes and specifications for Cement and Concrete	Date Reaffirmed
1	IS 269:1989	Specification for ordinary Portland cement, 33 grade (fourth revision)	Sept-98
2	IS 383:1970	Specification for coarse and fine aggregates from natural sources for concrete (second revision)	Feb-97
3	IS 455: 1989	Specification for Portland Slag cement (fourth revision)	Mar-00
4	*IS 456 : 2000	Code of practice for plain and reinforced concrete (third revision)	Aug-00
5	*IS 457 : 1957	Code of practice for general construction of plain and reinforced concrete for dams and other massive structures	Mar-00
6	*IS 516 : 1959	Method of test for strength of concrete	Jan-99
7	IS 650 : 1991	Specification for standard sand for testing of cement (second revision)	Jan-99
8	*IS 1199: 1959	Methods of sampling and analysis of concrete	Jan-99
9	**IS 1343: 1980	Code of practice for prestressed concrete (first revision)	Jan-99
10	*IS 1344: 1981	Specification for calcined clay pozzolana (second revision)	Jan-99
11	IS 1489(PT1): 1991	Specification for Portland Pozzolana Cement Part I Flyash based (third revision)	Mar-00
12	IS 1489(PT2): 1991	Specification for Portland Pozzolana Cement Part II calcined clay based (third revision)	Mar-00
13	IS 1727 : 1967	Methods of test for pozzolanic materials (first revision)	Jan-99
14	IS 2386(PT2): 1963	Methods of test for aggregates for concrete Part 1 Particle size and shape	Sept-97
15	IS 2386(PT2): 1963	Methods of test for aggregates for concrete part 2 estimation of deleterious materials and organic impurities	Feb-97
16	IS 2386(PT3): 1963	Methods of test for aggregates for concrete Part 3 specific gravity, density, voids, absorption and bulking	Feb-97
17	IS 2386(PT4): 1963	Methods of test for aggregates for concrete : Part 4 Mechanical properties	Feb-97
18	IS 2386(PT5): 1963	Methods of tests for aggregates for concrete : Part 5 Soundness	Feb-97
19	IS 2386(PT6): 1963	Methods of test for aggregates for concrete : Part 6 Measuring mortar making properties of fine aggregates	Feb-97
20	*IS 2386(PT7): 1963	Methods of test for aggregates for concrete : Part 7 Alkali aggregate reactivity	Feb-97
21	*IS 2386(PT8): 1963	Methods of test for aggregates for concrete : Part 8 Petrographic examination	Feb-97
22	IS 2430: 1986	Methods for sampling of aggregates for concrete (first revision)	Mar-00
23	*IS 2502: 1963	Code of practice for bending and fixing of bars for concrete reinforcement	Jan-99
24	IS 2505: 1980	General requirements for concrete vibrators	Jan-99
25	IS 2506: 1985	General requirements for screed board concrete vibrators (first revision)	Mar-00
26	*IS 2645: 1975	Specification for integral cement waterproofing compounds (first revision)	Jan-99
27	IS 2770(PT1): 1967	Methods of testing bond in reinforced concrete Part 1 Pullout test	Feb-97
28	IS 3085: 1965	Methods of test for permeability of cement mortar and concrete	Feb-97

Sl No.	IS Number	IS Codes and specifications for Cement and Concrete	Date Reaffirmed
29	*IS 3370(PT1): 1965	Code of practice for concrete structures for the storage of liquids : part 1 General requirements	Jan-99
30	*IS 3370(PT2): 1965	Code of practice for concrete structures for the storage of liquids : Part 2 Reinforced concrete structures	Jan-99
31	IS 3370(PT3): 1967	Code of practice for concrete structures for the storage of liquids : Part 3 Prestressed concrete structures	Jan-99
32	IS 3370(PT4): 1967	Code of practice for concrete structures for the storage of liquids : Part 4 design tables	Jan-99
33	IS 3466: 1988	Specification for masonry cement (second revision)	Jan-99
34	IS 3535: 1986	Methods of sampling hydraulic cement (first revision)	Jan-99
35	IS 3558: 1983	Code of practice for use of immersion vibrators for consolidating concrete (first revision)	Jan-99
36	IS 3812: 1981	Specification for fly ash for use as pozzolana and admixture (first revision)	Jan-99
37	IS 4031(PT1): 1996	Methods of physical tests for hydraulic cement: Part 1 Determination of fineness by dry sieving (second revision)	
38	IS 4031(PT2): 1999	Methods of physical tests for hydraulic cement: Part 2 Determination of fineness by specific surface by Blaine air permeability method (second revision)	
39	IS 4031(PT3): 1988	Methods of physical tests for hydraulic cement : Part 3 Determination of soundness (first revision)	Mar-00
40	IS 4031(PT4): 1988	Methods of physical tests for hydraulic cement : Part 4 Determination of consistency of standard cement paste (first revision)	Mar-00
41	IS 4031(PT5): 1988	Methods of physical tests for hydraulic cement : Part 5 determination of initial and final setting times (first revision)	Mar-00
42	IS 4031(PT6): 1988	Methods of physical tests for hydraulic cement : Part 6 determination of compressive strength of hydraulic cement (other than masonry cement) (first revision)	Mar-00
43	IS 4031(PT7): 1988	Methods of physical test for hydraulic cement: Part 7 Determination of compressive strength for masonry cement (first revision)	Mar-00
44	IS 4031(PT8): 1988	Methods of tests for hydraulic cement: Part 8 determination of transverse and compressive strength of plastic mortar using prism (first revision)	Mar-00
45	IS 4031(PT9): 1988	Methods of physical tests for hydraulic cement : Part 9 Determination of heat of hydration (first revision)	Mar-00
46	IS 4031(PT10): 1988	Methods of physical test for hydraulic cement : Part 10 Determination of drying and shrinkage (first revision)	Mar-00
47	IS 4031(PT11): 1988	Methods of physical tests for hydraulic cement : Part 11 Determination of density (first revision)	Mar-00
48	IS 4031(PT12): 1988	Methods of physical tests for hydraulic cement: Part 12 Determination of air content of hydraulic cement mortar (first revision)	Mar-00
49	IS 4031(PT13): 1988	Methods of physical tests for hydraulic cement : Part 13 Measurement of water retentivity of masonry cement (first revision)	Mar-00
50	IS 4031(PT14): 1989	Methods of physical test for hydraulic cement Part 14 Determination of false set	Mar-00
51	IS 4031(PT15): 1991	Methods of physical test for hydraulic cement Part 15	Mar-00

Sl No.	IS Number	IS Codes and specifications for Cement and Concrete	Date Reaffirmed
		Determination of fineness by wet sieving	
52	IS 4032 : 1985	Method of chemical analysis of hydraulic cement (first revision)	Mar-00
53	IS 4305 : 1967	Glossary of terms relating to pozzolana	Mar-00
54	IS 4634 : 1968	Methods for testing performance of batch-type concrete mixer (first revision)	Mar-00
55	IS 4845 : 1968	Definitions and terminology relating to hydraulic cement	Jan-99
56	*IS 4926 : 1976	Specification for ready mixed concrete (first revision)	Jan-99
57	IS 5512 : 1983	Specification for flow table for use in tests of hydraulic cements and pozzolanic materials (first revision)	Jan-99
58	IS 5513 : 1996	Specification for <i>vicat</i> apparatus (second revision)	
59	IS 5514 : 1996	Specification for apparatus used in Le-Chatelier test (first revision)	
60	IS 5515 : 1983	Specification for compaction factor apparatus (first revision)	Jan-99
61	IS 5516 : 1996	Specification for variable flow type air-permeability apparatus (Blaine type) (first revision)	Jan-99
62	IS 5525 : 1969	Recommendations for detailing of reinforcement in reinforced concrete works	Jan-99
63	IS 5536 : 1969	Specification for constant flow type air-permeability apparatus (Lea and Nurse type)	Mar-00
64	IS 5816 : 1999	Method of test for splitting tensile strength of concrete (first revision)	
65	IS 6452 : 1989	Specification for high alumina cement for structural use	Mar-00
66	IS 6461 (PT1): 1972	Glossary of terms relating to cement concrete : Part I Concrete aggregates	Feb-97
67	IS 6461 (PT2): 1972	Glossary of terms relating to cement concrete : Part II Materials	Feb-97
68	IS 6461 (PT3): 1972	Glossary of terms relating to cement concrete : Part III Concrete reinforcement	Feb-97
69	IS 6461 (PT4): 1972	Glossary of terms relating to cement concrete : Part IV types of concrete	Feb-97
70	IS 6461 (PT5): 1972	Glossary of terms relating to cement concrete : Part V Formwork for concrete	Feb-97
71	IS 6461 (PT6): 1972	Glossary of terms relating to cement concrete : Part VI Equipment tools & plant	Feb-97
72	IS 6461 (PT7): 1973	Glossary of terms relating to cement concrete : Part VII Mixing, laying, compaction, curing and other construction aspects	Feb-97
73	IS 6461 (PT8): 1973	Glossary of terms relating to cement concrete : Part VIII properties of concrete	Feb-97
74	IS 6461 (PT9): 1972	Glossary of terms relating to cement concrete : Part 9 Structural aspects	Feb-97
75	IS 6461 (PT10): 1973	Glossary of terms relating to cement concrete : Part 10 tests & testing apparatus	Feb-97
76	IS 6461 (PT11): 1973	Glossary of terms relating to cement concrete : Part 11 Prestressed concrete	Feb-97
77	IS 6461 (PT12): 1973	Glossary of terms relating to cement concrete : Part 12 Miscellaneous	Feb-97
78	IS 6491 : 1972	Methods of sampling fly ash	

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79	IS 6909 : 1990	Specification for supersulphated cement	
80	IS 6923 : 1973	Methods of test for performance of <i>screed board</i> concrete vibrators	Jan-99
81	IS 6925 : 1973	Methods of test for determination of water soluble chlorides in concr. admixture	Jan-99
82	IS 7246 : 1974	Recommendations for use of table vibrators for consolidating concrete	Jan-99
83	IS 7320 : 1974	Specification for concrete slump test apparatus	Jan-99
84	IS 7325 : 1974	Specification for apparatus for determining constituents of fresh concrete	Jan-99
85	IS 7861 (PT1): 1975	Code of practice for extreme weather concreting Part I	Feb-97
		Recommended practice for hot weather concreting	
86	IS 7861(PT2): 1981	Code of practice for extreme weather concreting : Part II	Feb-97
		Recommended practice for cold weather concreting	
87	IS 8041: 1990	Specification for rapid hardening Portland cement (second revision)	Mar-00
88	IS 8042: 1989	Specification for white portland cement (second revision)	Mar-00
89	IS 8043: 1991	Specification for hydrophobic Portland cement (second revision)	Mar-00
90	IS 8112: 1989	Specification for 43 grade ordinary portland cement (first revision)	Mar-00
91	IS 8125: 1976	Dimensions and materials of cement, rotary kilns, components and auxiliaries (dry process with suspension preheater)	Jan-99
92	IS 8142: 1976	Method of test for determining setting time of concrete by penetration resistance	Feb-97
93	IS 8229: 1986	Specification for oil-well cement (first revision)	Jan-99
94	IS 9012: 1978	Recommended practice for shotcreting	Feb-97
95	IS 9013: 1978	Method of making, curing and determining compressive strength cured concrete test specimen	Feb-97
96	IS 9103: 1999	Specification for admixtures for concrete (first revision)	
97	IS 9142: 1979	Specification for artificial lightweight aggregates for concrete masonry units	Feb-97
98	IS 9284: 1979	Method of test for abrasion resistance of concrete	Feb-97
99	IS 9376: 1979	Specification for apparatus for measuring aggregate crushing value and ten per cent fines values	Jan-99
100	IS 9376: 1979	Specification for apparatus for aggregate impact value	Jan-99
101	IS 9399: 1979	Specification for apparatus for flexural testing of concrete	Jan-99
102	IS 9459: 1980	Specification for apparatus for use in measurement of length change of hardened cement paste, mortar and concrete	Jan-99
103	IS 9799: 1981	Specification for pressure meter for determination of air content of freshly mixed concrete	Jan-99
104	IS 10070: 1982	Specification for machine for abrasion testing of coarse aggregates	Jan-99
105	IS 10078: 1982	Specification for jolting apparatus for testing cement	Jan-99

Sl No.	IS Number	IS Codes and specifications for Cement and Concrete	Date Reaffirmed
106	IS 10079: 1982	Specification for cylindrical metal measures for use in tests of aggregates and concrete	Jan-99
107	IS 10080: 1982	Specification for vibration machine for casting standard cement mortar cubes	Jan-99
108	IS 10086: 1982	Specification for moulds for use in tests of cement and concrete	Jan-99
109	IS 10262: 1982	Recommended guidelines for concrete mix design	Jan-99
110	IS 10510: 1983	Specification for vee-bee consistometer	Jan-99
111	IS 10850: 1984	Specification for apparatus for measurement of water retentivity of masonry cement	Jan-99
112	IS 10890: 1984	Specification for planetary mixer used in tests of cement and pozzolana	Jan-99
113	IS 11262: 1985	Specification for calorimeter for determination of heat of hydration of hydraulic cement	Jan-99
114	IS 11263: 1985	Specification for cylinder measures for determination of air content of hydraulic cement mortar	Jan-99
115	IS 11389: 1986	Methods of test for performance of concrete vibrators : Immersion type	Jan-99
116	IS 11993: 1987	Code of practice for use of screed board concrete vibrators	Jan-99
117	IS 12089: 1987	Specification for granulated slag for manufacture of Portland slag cement	Jan-99
118	IS 12119: 1987	General requirements for pan mixers for concrete	Jan-99
119	IS 12269: 1987	Specification for 53 grade ordinary portland cement	Jan-99
120	IS 12330: 1988	Specification for sulphate resisting portland cement	Mar-00
121	IS 12423: 1988	Method for colorimetric analysis of hydraulic cement	Mar-00
122	IS 12468: 1988	General requirements for vibrators for mass concreting : Immersion type	Mar-00
123	IS 12600: 1989	Specification for low heat portland cement	Mar-00
124	IS 12803: 1989	Method of analysis of hydraulic cement by X-ray fluorescence spectrometer	Jan-99
125	IS 12813: 1989	Methods of analysis of hydraulic cement by atomic absorption spectrophotometer	Jan-99
126	IS 12870: 1989	Methods of sampling calcined clay pozzolana	
127	IS 13311(PT1): 1992	Methods of non-destructive testing of concrete : Part 1 Ultrasonic pulse velocity	Jan-99
128	IS 13311(PT2): 1992	Methods of non-destructive testing of concrete : Part 2 Rebound hammer	Jan-99
129	IS 14345 : 1996	Specification for autoclave apparatus	
130	IS 14687 : 1999	Guidelines for falsework for concrete structures	
131	SP: 16(S&T): 1980	Design for reinforced concrete to IS 456: 1978	
132	SP: 23(S&T): 1982	Handbook on concrete mixes (Amendment No. 1)	
133	SP: 24(S&T): 1983	Explanatory handbook on Indian Standard code of practice for plain and reinforced concrete (IS 456: 1978)	